Work Zone Traffic Safety

Employees being struck by vehicles or mobile equipment lead to many work zone fatalities or injuries. Work zones need traffic controls identified by signs, cones, barrels and barriers. Drivers, employees on foot, and pedestrians must be able to see and understand the proper routes. Construction project managers determine traffic control plans within construction/demolition worksites.

- Traffic control devices, signals, and message boards instruct drivers to follow paths away from where work is being done.
- Approved traffic control devices, including cones, barrels, barricades, and delineator posts are also used inside work zones.

Work Zone Protections: Various concrete, water, sand, collapsible barriers, crash cushions, and truck-mounted attenuators can help limit motorist intrusions into construction work zones.

Flagging: Flaggers should wear high visibility clothing with a fluorescent background and made of retro-reflective material. This makes employees visible for at least 1,000 feet in any direction. Check the label or packaging to ensure that the garments are performance class 2 or 3.

Drivers should be warned with signs that there will be flaggers ahead. Flaggers should use STOP/SLOW paddles, paddles with lights, or flags (only in emergencies).

Lighting: Flagger stations should be illuminated. Lighting for employees on foot and for equipment operators should be at least 5 foot-candles or greater. Where available lighting is not sufficient, flares or chemical lighting should be used. Glare should be controlled or eliminated.

Training: Flaggers must be trained/certified and use authorized signaling methods.

Driving: Seat belts and rollover protection should be used on equipment and vehicles as the manufacturer recommends.

ROAD CONSTRUCTION AREAS

From the "Manual on Uniform Traffic Control Devices"

Even when all traffic control measures are taken, a confused or unaware driver can crash through a work site, or a daydreaming worker can step into the path of a speeding vehicle. Some drivers take reckless chances by running stop signs or changing lanes without signaling. These unsafe acts jeopardize other drivers who may lose control of their vehicle while avoiding a collision. Follow these safety procedures:

Planning: All traffic control must be carefully planned and approved by governing authorities before work begins. If you are responsible for planning, drive through the traffic pattern before any work starts to insure that the public will understand how to control their vehicles appropriately. If there is any possibility of driver confusion in the pattern, change it.

Signage: The Manual on Uniform Traffic Control Devices and local or state regulations should be followed for proper signage and barricading. Place initial warning signs a minimum of 1,000 feet from traffic revisions. All signs and related equipment should be in good condition and highly visible. In some cases, independent traffic safety contractors handle warning signs and barricades.

Barricades: Devices, which guide traffic such as cones or barrels should be highly visible and spaced relatively close together, so drivers will not deviate from an assigned traffic flow. All such barriers should be made of material that will cause little or no damage if a vehicle contacts it.

Flaggers: All employees should wear hard hats and must wear high-visibility orange or day-glow vests. When working at night, the vest should have light-reflective strips. Roadside construction sites must have at least one individual assigned to traffic control. A highly visible sign paddle should be used during daylight hours. It should be octagonal in shape, at least 18 inches across, and have letters at least six inches high that say *STOP* on one side and *SLOW* on the other. Flaggers should have two-way radios. When flaggers are present, a sign indicating this must be placed a minimum of 500 feet from the beginning of the detour.

Vehicles: All construction vehicles should be equipped with backing alarms, two-way radios, and *Slow Moving Vehicle* signs when appropriate. Ideally, they should be painted a highly visible color and many jurisdictions also require flashing yellow beacons. All operators must be qualified and trained to operate the equipment they are using. If a vehicle will be parked along side the road, orange safety cones should be placed around it to alert drivers.

Night Work: If work is done at night, the entire site must be illuminated. Increase warning distances in areas of fast-moving traffic as light fails. Flaggers should have orange-cone flashlights and barricades should be equipped with flashing lights. Any excavations or utility accesses should be taped off and barricaded with flashing warning lights.

Flagging Safety

Safety Training Handout

SIGNS CAN'T THINK

Signs normally do a good job of giving messages or direction. But they have one disadvantage. They can't think. And if a situation changes suddenly, our signs can't automatically adjust. That is where we come in. A flag person is used where conditions are constantly changing and traffic instructions must change, too. For traffic control to be effective, the job has to beset up properly. We put out the necessary signs in advance to warn motorists they are entering a construction area, and to let them know that a flag person will be giving directions.

MAKE SURE THEY SEE YOU

Motorists will be looking for the promised flag person, and should be able to spot you quickly. That is one reason you wear a fluorescent vest. So you will stand out. But let's not defeat its purpose. Don't let a bunch of other employees gather around you, so that you can't be seen at all. Or what do you suppose motorists think when they come upon a whole group of us waving our arms, all of us directing various pieces of construction equipment and no one directing the driver? Sometimes motorists find two persons giving them conflicting directions. We can avoid such situations by following these few basic rules:

- 1. As a flag person, you should understand what our operation involves, so that you know what to anticipate when directing traffic.
- 2. You should be properly dressed and neat in appearance. Foot wear is important. Remember that pavement can get mighty hot or cold, depending on the weather. Sturdy shoes or boots are advisable.
- 3. Depending on state requirements, paddles or flags of the correct size must be used. Flags should be at least 24" square.
- 4. There is only one right way to signal traffic, while there are many wrong ways. We all should be using one standardized set of signals.
- 5. Only designated flag persons should be directing traffic, except in emergency situations. These individuals must be alert to traffic conditions and the construction operations at all times.
 - 6. Never turn your back on traffic. Many a flag person has been knocked for a loop.
- 7. Flag persons should be firm but courteous with the public at all times. The general public could well form an opinion of the construction industry as a whole by the impression they receive from you.

THEIR HIGHWAY

Always remember that it's the public's high-way. So, we do want to be courteous. But at the same time, we want to make sure that an accident doesn't happen. We may have to be especially firm with some motorists to keep them from hurting themselves or others. Being a flag person is a very important job, because you have the responsibility of protecting the public, your fellow workers, and yourself.



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For more complete information:



Occupational Safety and Health Administration

U.S. Department of Labor www.osha.gov (800) 321-OSHA

are often reduced in work zones to accommodate sign to the END ROAD WORK sign. Speed limits or work vehicles. It extends from the first warning cones, drums, barriers, pavement markings and/ activities. A work zone is typically marked by signs, lane shifts and protect workers. maintenance, utility work or incident management Awork zone is an area of a roadway with construction

growing roadway safety concern. Four out of every five work zone fatalities were motorists. between 1997 and 2005, work zone safety is With nearly a 40% increase in work zone fatalities മ

when road construction or workers are present. or poor lane merges behind the car in front of you, improper lane changes which can be attributed to following too closely rear end or same direction sideswipe collisions, Approximately 1,500 of these work zone crashes Each year nearly 6,000 crashes occur in New Jersey result in injury. A majority of work-zone crashes are

work zone information within New Jersey online television and Websites for traffic information. For Schedule enough time to drive safely. Check radio, visit: http://www.NJCommuter.com

biking safely through work zones We are all responsible for driving, walking and





directions on a roadway pe aleit for or coming traffic li alife is iraveling in bol hat is normally one way







of the work zone. Resume You have reached the end



ians" and pernaiss save a life – It could be your own! u edusuo ueppes

STAY ALERT

Dedicate your full attention to the roadways

MINIMIZE DISTRACTIONS

eating and other distractions that can remove your Avoid changing radio stations, using mobile phones concentration from the road

PAY CLOSE ATTENTION

ahead. Watch traffic around you and be prepared to react. Listen to the signs. Watch brake lights on vehicles

DON'T TAILGATE

the rear end collision. The most common crash in a highway work zone is

SLOW DOWN!

crashes. Fines are doubled for moving traffic viola-Speeding is one of the major causes of work zone tions in work zones

CHANGE LANES SAFELY

cate, and only when traffic conditions permit. Change lanes only where pavement markings indi-

FOLLOW FLAGGER INSTRUCTIONS

so you can be fined for disobeying directions. A flagger has the same authority as a regulatory sign

EXPECT THE UNEXPECTED

may be changed, and people may be working on or Normal speed limits may be reduced, traffic lanes near the road.

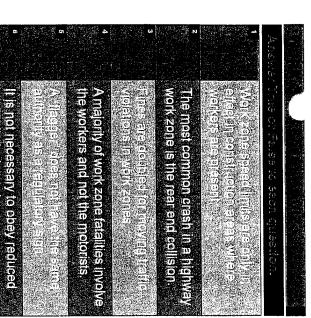
EXPECT DELAYS

on time. Take an alternate route if possible. Plan for them and leave early to reach your destination

BE PATIENT AND STAY CALM

you. Remember: The goal of the work zone crew is to improve the road and your future drive Work zones aren't there to personally inconvenience





Answers: 1) False 2) True 3) True 4) False 5) False 6) False 7) True 8) True

swipe crash types are predominant in

r-end and same direction

For additional information, please visit:

www.state.nj.us/transportation www.njmvc.gov www.njsaferoads.com www.icnj.org

or email:

nj.safety@fhwa.dot.gov



THE 12 MONTHS C RAFFIC SAFETY

The 12 Months of Traffic Safety is a campaign to increase public awareness of traffic safety issues. Different traffic safety issues will be highlighted each month of the year. Campaign issues include:

Aggressive Driving

Bus and Train Safety

Child Passenger Safety

Drive Safely in Inclement Weather

Driver inattention

Drowsy Driving

Drunk Driving. Over the Limit, Under Arrest.

Helmets & Wheels

Intersection Safety

Motorcycle Safety

Occupant Protection

Pedestrian & Bicycle Safety

School Bus Safety

Senior Safety

Truck Safety

Work Zone Safety

Sponsored by:

United States Department of Transportation
New Jersey Department of Transportation
New Jersey Division of Highway Traffic Safety
New Jersey Motor Vehicle Commission
New Jersey State Police
New Jersey State Association of Chiefs of Police
Insurance Council for New Jersey
AAA Clubs of New Jersey

